

Work Order ID 127757

December-17-14 1:53:16 PM

127757

Page 1

Item ID: D3535-13 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Stainless Steel Wearplate Fwd
 Start Date: 12/17/14 Start Qty: 3.00 ***3*** Cust Item ID:
 Required Date: 12/17/14 Req'd Qty: 3.00 ***3*** Customer:
 Reference:

Approvals: Process Plan: ML5 Date: 14-12-23 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3535	Rev B								
100	FLOW WATER JET	0.00							
100									
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per Dwg D3535 Dwg Rev: <u>B</u> Prog Rev: <u>B</u> 2-								
304.040	Debur if necessary								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.00							
Quality Control									
120	QC8- Inspect parts - second check	0.00							
120									
QC	Memo	0.00							
Quality Control									

JAN 08 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Brake NC Brake NC	NC BRAKE Memo 1-Form on Brake as per Dwg D3535 using Jigs DT8261 and DT83262-Form joggle as per Dwg D3535 using Jig DT8158 Identify as D3535-13	0.00 0.00			DAS 30 9-89	4			156415
140 *140* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00				(4)			DAS 38 9-89 JAN 15 2015
150 *150* Powdercoat Powder Coating	Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3 Memo START TIME: 9:55 FINISH TIME: 10:25 OVEN TEMPERATURE:	0.00 0.00				4.0	15-1-10		DAS 34 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	QC3- Inspect Part Finish	0.00							DAS
160									38
QC	Memo	0.00				(4)			9-89
Quality Control									JAN 19 2015

170 Identify as per dwg & Stock Location: FP-002 0.00
170
 Packaging Memo 0.00
 Packaging

x4 of 11 15/01/19

180 QC21- Final Inspection - Work Order Release 0.00
180
 QC Memo 0.00
 Quality Control

MLJ 15-01-20

(H) 15-1-20

DQA: _____ Date: _____



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Picklist Print

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Page 1

Work Order ID: 127757

127757

Parent Item: D3535-13

D3535-13

Parent Item Name: Stainless Steel Wearplate Fwd

Start Date: 12/17/14

Required Date: 12/17/14

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP Rev:A New Issue 07-02-15 JLM
IPP Rev:B As per Rev B 07-08-31 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S20GA		Purchased	No			100	sf	257.5000	0.8505	3			

M304S20GA

304/316 .040 Sheet

DE 15/01/07

Location

Loc Qty

Loc Code

MAT020

257.5

m130345

5.5

m131060

252

3

DQA: _____ Date: _____



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DART AEROSPACE LTD		Work Order: 127757
Description: Wearshoe		Part Number: D3535-13
Inspection Dwg: D3535 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.885	+/-0.010	1.885	/		V=DX-01	
2.000	+/-0.010	2.000	/		V=DX-02	
5.650	+/-0.010	5.650	/		Tape	
9.150	+/-0.010	9.150	/			
14.066	+/-0.010	14.066	/			
18.983	+/-0.010	18.983	/			
23.900	+/-0.010	23.900	/			
27.400	+/-0.010	27.400	/			
29.400	+/-0.010	29.400	/			
32.900	+/-0.010	32.900	/			
Ø0.188	+0.005/-0.001	Ø0.188	/			
20.00	+/-0.030	20.00	/			
14.00	+/-0.030	14.00	/			
8.00	+/-0.030	8.00	/			
5.00	+/-0.030	5.00	/			
0.300	+/-0.010	0.300	/			
0.300	+/-0.010	0.301	/			
0.038	+/-0.010	0.035	/			

DAS

Measured by: DL
Date: 15/01/07

Audited by: 38
Date: JAN 08 2015

Prototype Approval:	N/A
Date:	N/A

Rev	Date	Change	Revised by	Approved
A	08.04.15	New Issue	KJ/DD	

DART

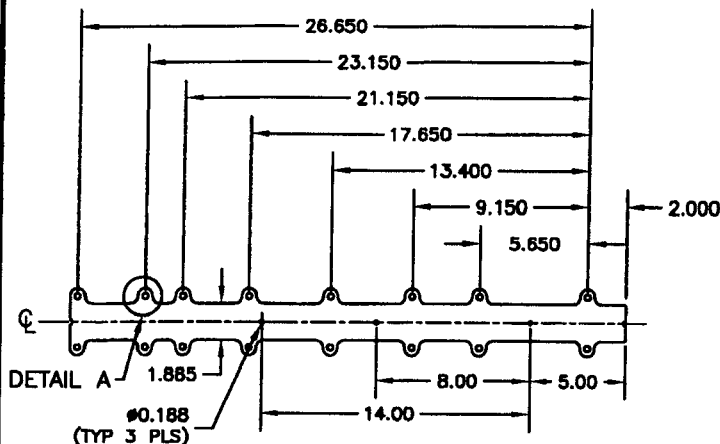
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07.04.24

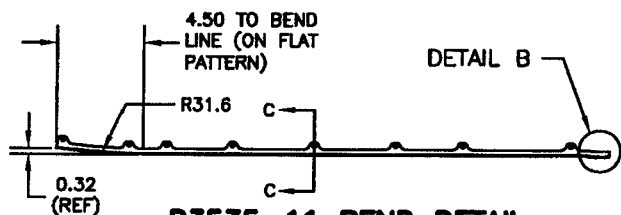
UNCONTROLLED COPY
SUBJECT TO CHANGE
WITHOUT NOTICE
VOLUME 1

NO. 127757 M.C. 14-12-23

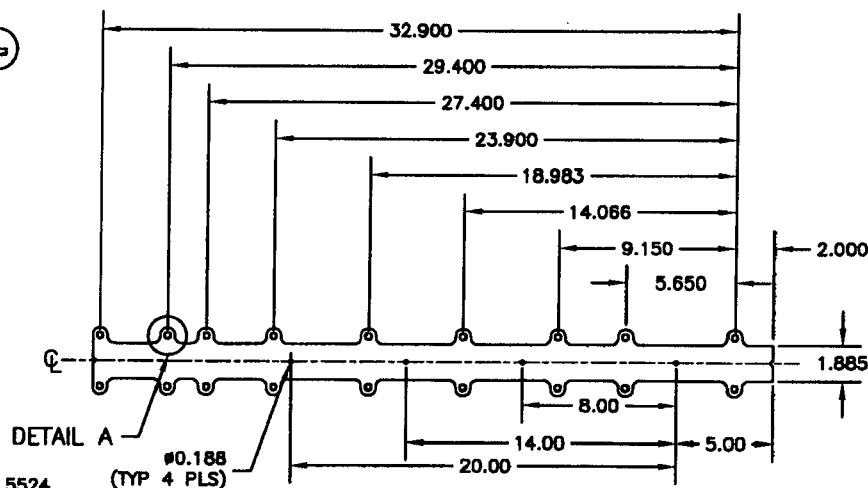
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CHECKED		APPROVED		PORT HADLOCK, WA
DATE	07.04.17	DRAWING NO.	D3535	REV. B
TITLE	WEARSHOE	DATE	06.10.25	SHEET 1 OF 7
			NEW ISSUE	SCALE 1:10
			MOVE TAB OUTBOARD, ADD AMS SPEC	



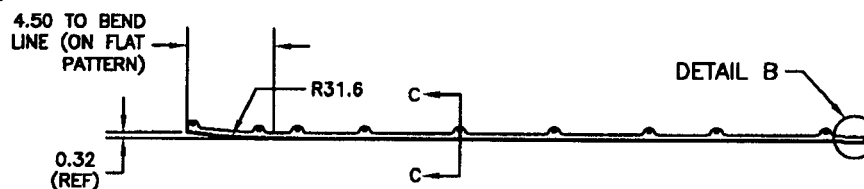
D3535-11F FLAT PATTERN



D3535-11 BEND DETAIL



D3535-13F FLAT PATTERN



D3535-13 BEND DETAIL

NOTES

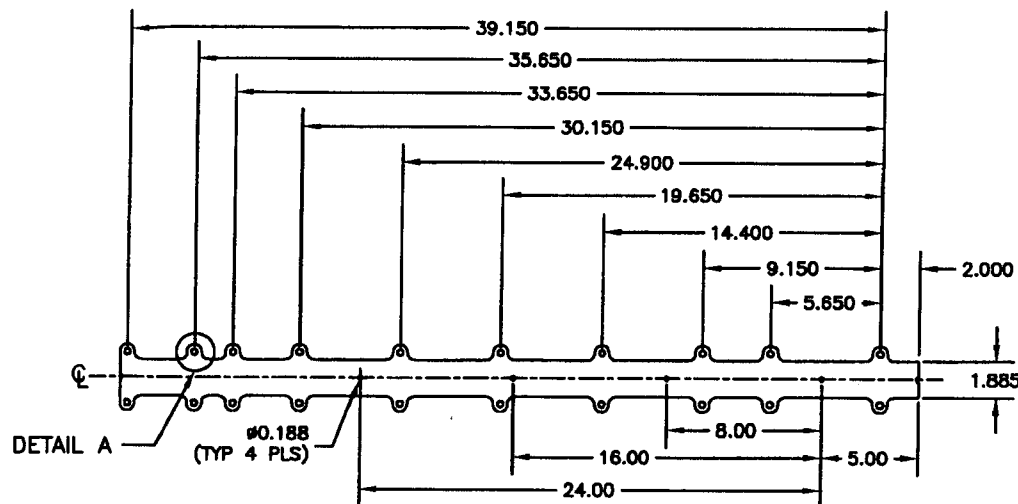
- 1) MATERIAL: AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524, 20 GAUGE (0.038 THICK) (REF DART SPEC M304S20GA)
- 2) FINISH: POWDER COAT GREY SANDTEX (4.3.5.6) PER QSI 005 4.3
- 3) PART IS SYMMETRICAL ABOUT ϕ
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) BREAK ALL SHARP EDGES TO 0.010 MAX
- 7) IDENTIFY WITH DART P/N USING WHITE FINE POINT PAINT MARKER
- 8) SEE PAGE 7 FOR DETAILS AND SECTION

DART

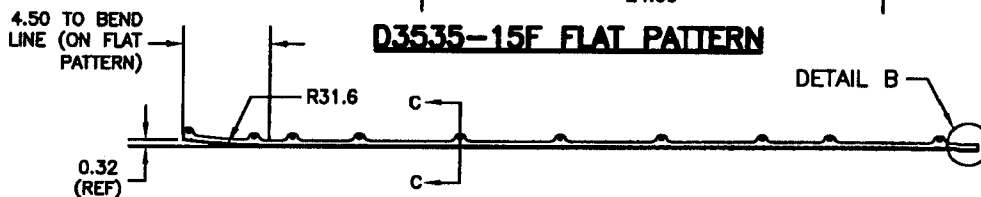
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07.04.24

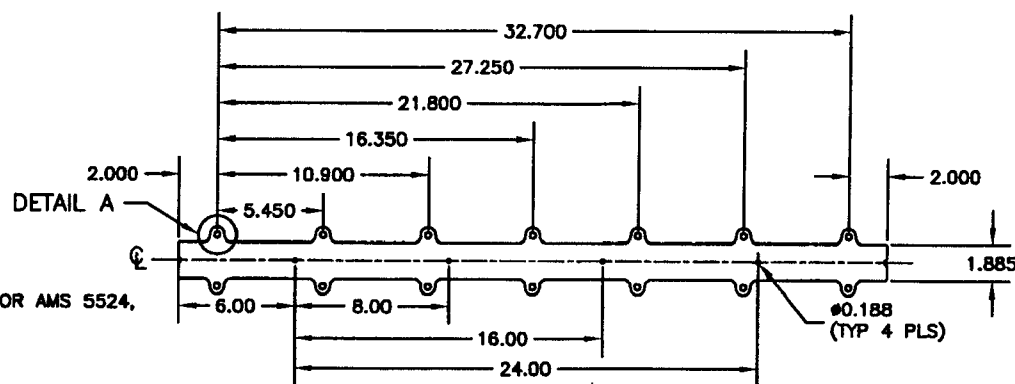
DESIGN	C.B.	DRAWN BY	M.H.	DART AEROSPACE USA, INC.
CHECKED		APPROVED		PORT HADLOCK, WA
DATE	07.04.17	TITLE	D3535	WEARSHOE
				SCALE 1:10
				SHEET 2 OF 7
				REV. B



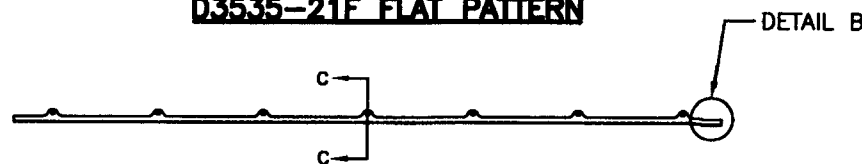
D3535-15F FLAT PATTERN



D3535-15 BEND DETAIL



D3535-21F FLAT PATTERN



D3535-21 BEND DETAIL

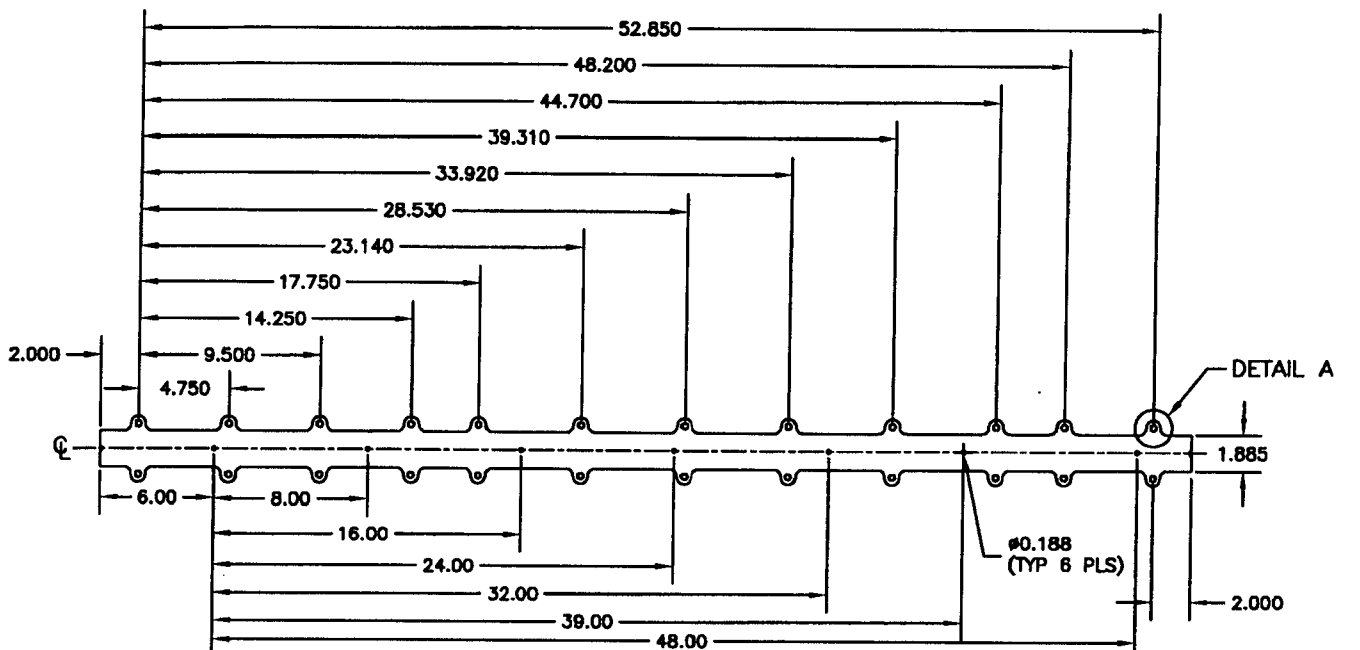
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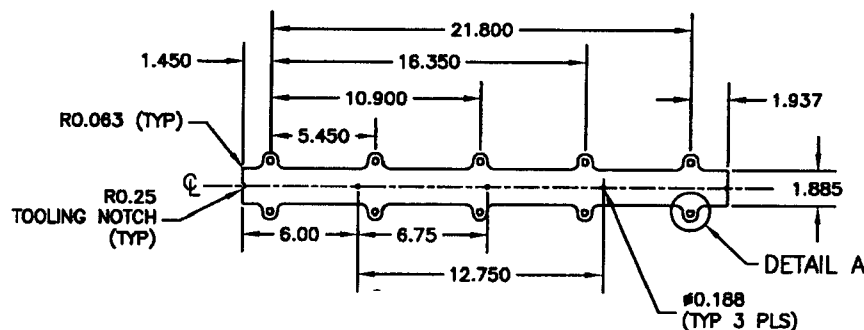
RELEASED

07.04.24



D3535-23F FLAT PATTERN

D3535-23 BEND DETAIL



D3535-25F FLAT PATTERN

D3535-25 BEND DETAIL

NOTES

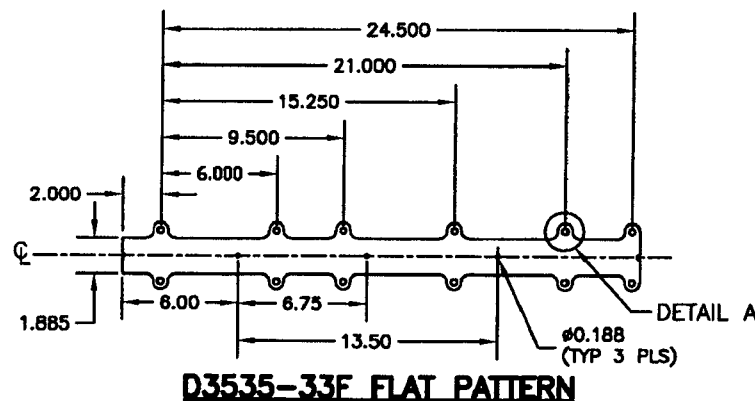
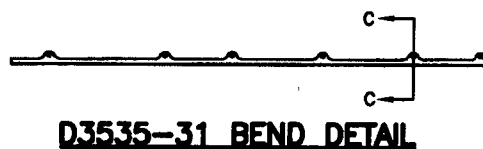
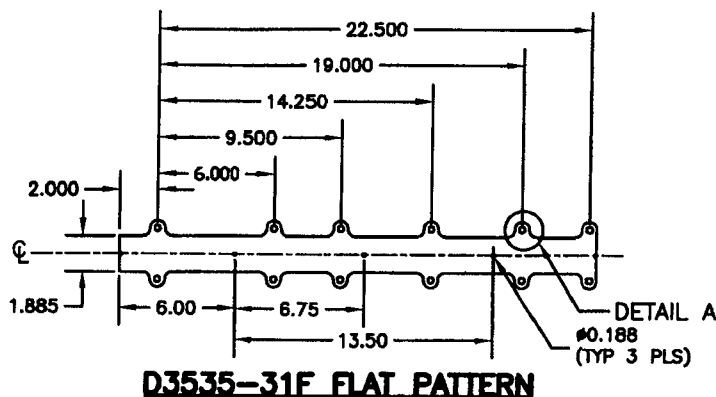
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DESIGN	DRAWN BY	DART AEROSPACE USA, INC.
CB	PH	PORT HADLOCK, WA
CHECKED	APPROVED	DRAWING NO.
PH	PH	D3535
DATE	TITLE	SHEET 3 OF 7
07.04.17	WEARSHOE	SCALE 1:10

DART

RELEASED
07.04.24

DESIGN	C.B.	DRAWN BY	PH	DART AEROSPACE USA, INC.
CHECKED	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	PORT HADLOCK, WA
DATE	07.04.17	DRAWING NO.	D3535	REV. B
TITLE	WEARSHOE	SHEET 4 OF 7	SCALE	1:10



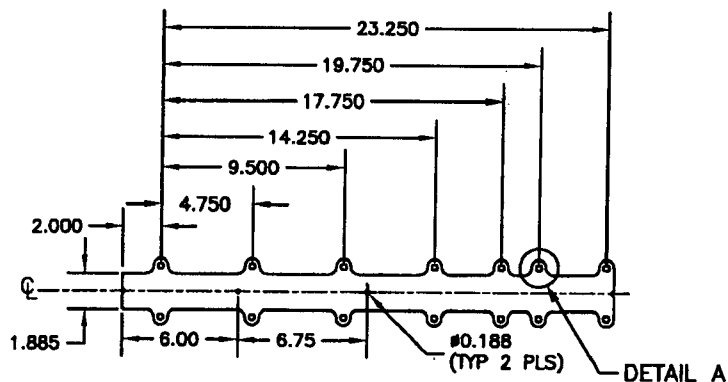
NOTES

- 1) MATERIAL: AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524, 20 GAUGE (0.038 THICK)
(REF DART SPEC M304S20GA)
- 2) FINISH: POWDER COAT GREY SANDTEX (4.3.5.6) PER QSI 005 4.3
- 3) PART IS SYMMETRICAL ABOUT ϕ
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) BREAK ALL SHARP EDGES TO 0.010 MAX
- 7) IDENTIFY WITH DART P/N USING WHITE FINE POINT PAINT MARKER
- 8) SEE PAGE 7 FOR DETAILS AND SECTION

DART

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07.04.24

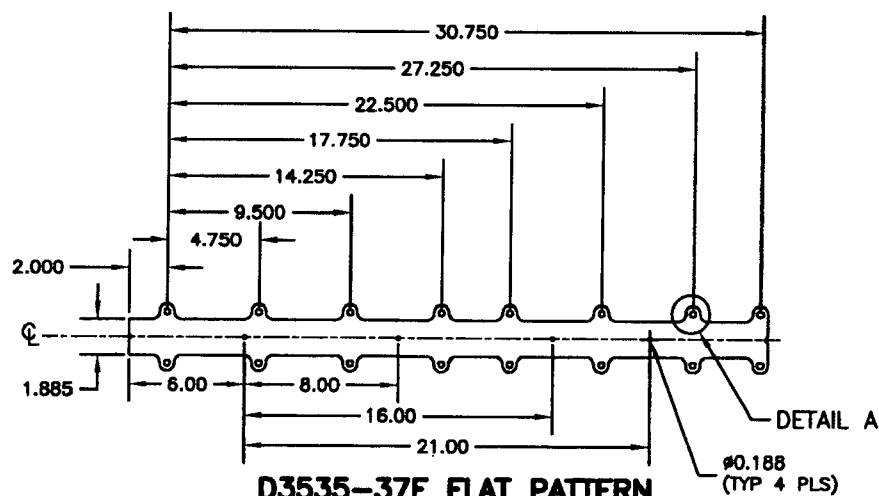
DESIGN	C.B.	DRAWN BY	R.H.	DART AEROSPACE USA, INC.
CHECKED	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	PORT HADLOCK, WA
DATE	07.04.17	TITLE	D3535	WEARSHOE
		DRAWING NO.	D3535	REV. B
		SHEET	5 OF 7	SCALE
				1:10



D3535-35F FLAT PATTERN



D3535-35 BEND DETAIL



D3535-37F FLAT PATTERN



D3535-37 BEND DETAIL

NOTES

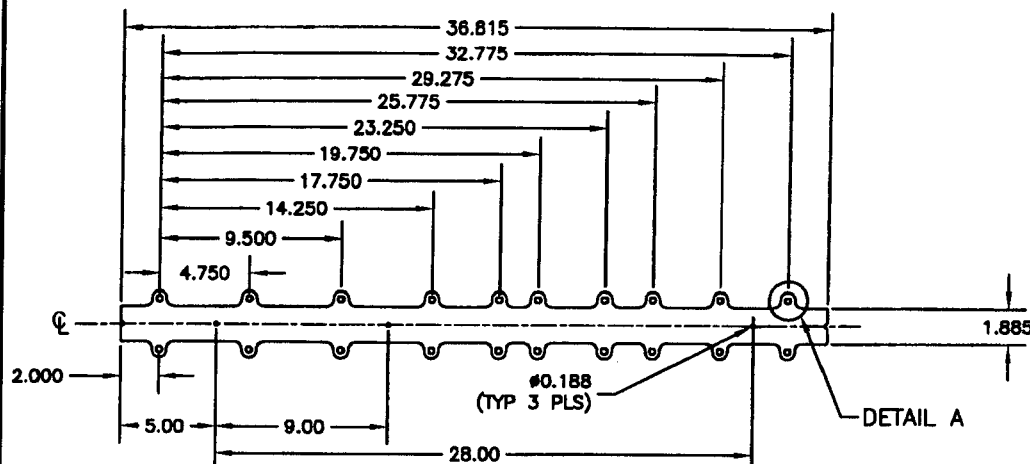
- 1) MATERIAL: AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524, 20 GAUGE (0.038 THICK) (REF DART SPEC M304S20GA)
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DART

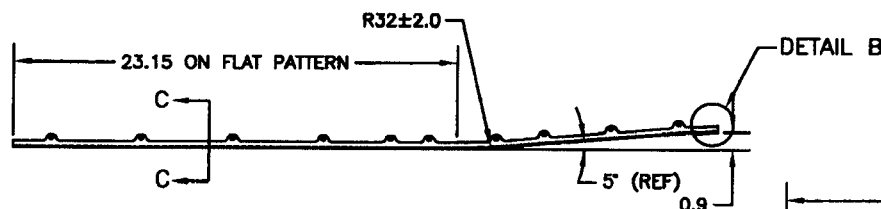
RELEASED

07.04.24

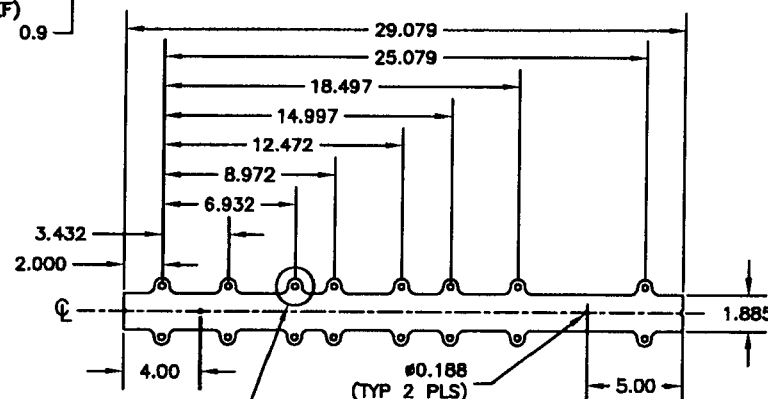
DESIGN CB	DRAWN BY PH	DART AEROSPACE USA, INC. PORT HADLOCK, WA
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3535
DATE 07.04.17	TITLE WEARSHOE	REV. B SHEET 6 OF 7
	SCALE 1:10	



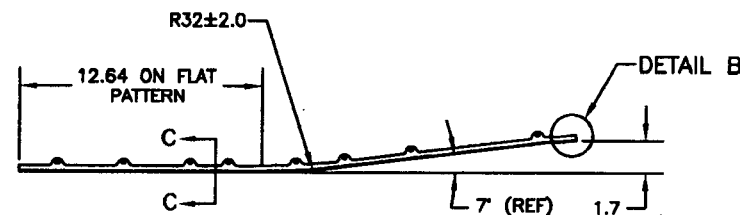
D3535-39F FLAT PATTERN



D3535-39 BEND DETAIL



D3535-41F FLAT PATTERN



D3535-41 BEND DETAIL

NOTES

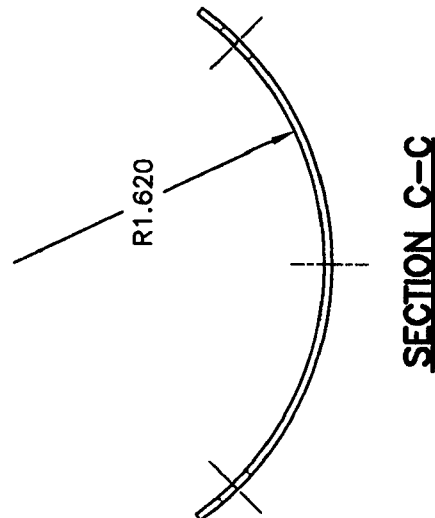
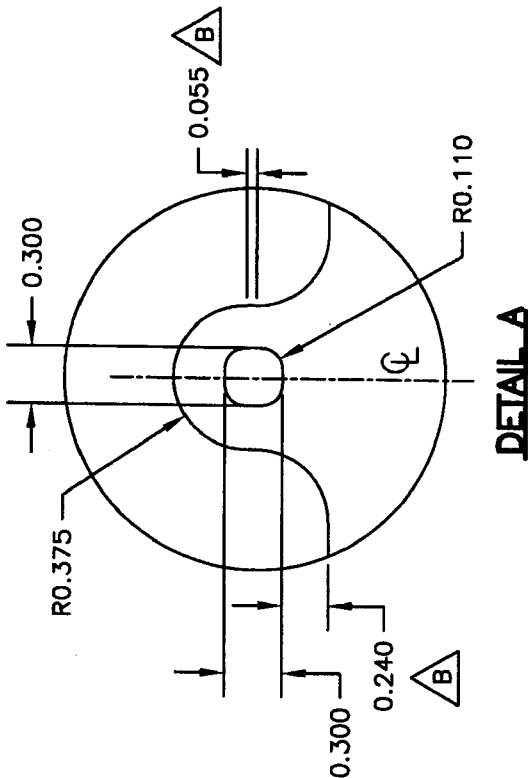
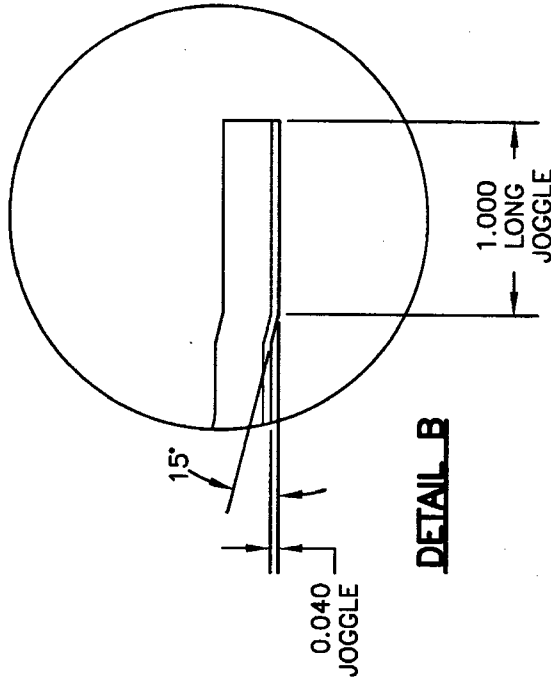
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CHECKED 	APPROVED 	DRAWING NO. D3535	REV. B SHEET 7 OF 7
DATE 07.04.17		TITLE WEARSHOE	SCALE 1:1

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07.01.24



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